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NOTICE OF ALLOWANCE AND FEE(S) DUE

5514

7590

05/21/2002

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER
FEGGINS, KRISTAL J

ART UNIT CLASS-SUBCLASS

2861 347-014000

DATE MAILED: 05/21/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677.867	10/03/2000	KOROMO SHIROTA	684.3087	6122

TITLE OF INVENTION: INK JET HEAD SUBSTRATE HAVING HEAT GENERATING RESISTOR AND INK JET HEAD AND RECORDING METHOD USING SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	08/21/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112

Note: A certificate of mailing can only be used for domestic mailings of the

Fee(s) Transmittal. This						
eccompanying papers. Eac	h additional	paper,	such as	an ass	ignme	nt or
formal drawing, must have	its own certi	ficate of	mailing	or trans	missio	n.

Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

	transmitted to the Obi 10, on the date indicated octor.
(Depositor's name	
(Signature)	_
(Date)	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677.867	10/03/2000	KOROMO SHIROTA	684.3087	6122

TITLE OF INVENTION: INK JET HEAD SUBSTRATE HAVING HEAT GENERATING RESISTOR AND INK JET HEAD AND RECORDING METHOD **USING SAME**

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nonprovisional	NO	\$1280	\$0	\$1280	08/21/2002
EXAMI	NER	ART UNIT	CLASS-SUBCLASS		
FEGGINS, K	RISTAL J	2861	347-014000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).		2. For printing on the patent from the names of up to 3 registered	patent attorneys		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		or agents OR, alternatively, (2) the name of a single firm (having as a member a registered			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.		attorney or agent) and the nar registered patent attorneys or ag is listed, no name will be printed.	ents. If no name		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	gories (will not be printed on the patent)	☐ individual	□ corporation or other private group entity	☐ governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the amount	of the fee(s) is er	nclosed.	
☐ Publication Fee	☐ Payment by credit care	l. Form PTO-203	8 is attached.	
☐ Advance Order - # of Copies	☐ The Commissioner is Deposit Account Number	nereby authorized r	by charge the required fee(s), or credit any over (enclose an extra copy of this form).	erpayment, to
Commissioner for Patents is requested to apply the Issu	e Fee and Publication Fee (if any) or to re	apply any previo	ously paid issue fee to the application identified	above.
(Authorized Signature)	(Date)			<u>, </u>
NOTE; The Issue Fee and Publication Fee (if requiother than the applicant; a registered attorney or a interest as shown by the records of the United States I This collection of information is required by 37 CF obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C. estimated to take 12 minutes to complete, including completed application form to the USPTO. Time we case. Any comments on the amount of time you suggestions for reducing this burden, should be sent Patent and Trademark Office, U.S. Department of CNOT SEND FEES OR COMPLETED FORMS Commissioner for Patents, Washington, DC 20231.	gent; or the assignee or other parfy in Patent and Trademark Office. R 1.311. The information is required to file (and by the USPTO to process) an 122 and 37 CFR 1.14. This collection is gathering, preparing, and submitting the full vary depending upon the individual require to complete this form and/or to the Chief Information Officer, U.S. promerce, Washington, D.C. 20231 DO			

TRANSMIT THIS FORM WITH FEE(S)

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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/677,867	10/03/2000	KOROMO SHIROTA	684.3087	6122	
5514 759	05/21/2002		EXAMIN	ER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		SCINTO	FEGGINS, KRISTAL J		
			ART UNIT	PAPER NUMBER	
			2861		
•		D	DATE MAILED: 05/21/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

•		·	No
4	Application No.	Applicant(s)	•
Alexan - E Allowskiller	09/677,867	SHIROTA ET AL.	
Nơtice of Allowability	Examiner	Art Unit	
	K. Feggins	2861	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in the or other appropriate communic GHTS. This application is sub-	is application. If not include cation will be mailed in due	led course. THIS
1. A This communication is responsive to Amendment filed 1 M	lar 2002.		
2. The allowed claim(s) is/are 1-26.			
3. The drawings filed on <u>03 October 2000</u> are accepted by th			
4. Acknowledgment is made of a claim for foreign priority und a) All b) ☐ Some* c) ☐ None of the:).	
1. Certified copies of the priority documents have	e been received.		
2. Certified copies of the priority documents have	been received in Application h	No	
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 			ation from the
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority u		rovisional application).	
(a) The translation of the foreign language provisional a		104	
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/or 1	121.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	f this communication to file a re this application. THIS THREE	ply complying with the req	uirements noted
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reas	nitted. Note the attached EXAN son(s) why the oath or declarat	INER'S AMENDMENT or ion is deficient.	NOTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftsper	son's Patent Drawing Review (PTO-948) attached	
1) hereto or 2) to Paper No	·	· ·	
(b) ☐ including changes required by the proposed drawing	correction filed . which	has been approved by the	Examiner.
(c) ☐ including changes required by the proposed drawing			
(c) — including changes required by the attached examiner	S. anonamone / Sommone of the	cc acaen or i apo	
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	.84(c)) should be written on the with a transmittal letter address	drawings in the top margin sed to the Official Draftsper	(not the back) son.
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR 1	sit of BIOLOGICAL MATER THE DEPOSIT OF BIOLOGICA	RIAL must be submitted. AL MATERIAL.	Note the
Attachment(s)			
1 Notice of References Cited (PTO-892)	2 ☐ Notice of I	nformal Patent Application	(PTO-152)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), Pape	er No
5 Information Disclosure Statements (PTO-1449), Paper No. 5	_ _	Amendment/Comment	- Allessan
7☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8☑ Examiner's Statement of Reasons for Allowance 9☐ Other			r Allowance
of Biological Material	a□ Other	•	

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The primary reason for the allowance of claims 1-8 is the inclusion of the method steps of an ink jet recording head that comprises the heat generating resistor coated being coated with protection film and providing a recording mode in which the ink is ejected, the ink having a maximum temperature at a surface of the protection film of 560°C. It is these method of steps found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 9-18 is the inclusion of the limitations of an ink jet recording head substrate and an ink jet head that comprises a protection film with which said heat generating resistor is coated wherein a maximum temperature at a surface where said protection film comes into contact with the ink is 560°C during driving of said heat generating resistor. It is these limitations found in each of the claims, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 19-26 is the inclusion of the limitations of an ink jet apparatus that comprises a protection film with which said heat generating resistor is coated wherein a driving signal control means is provided for making a maximum temperature at a surface where said protection film comes into contact with the ink 560°C during driving of said heat generating resistor. It is these

Application/Control Number: 09/677,867

Art Unit: 2861

limitations found in each of the claims, as it is claimed in the combination that has not

been found, taught or suggested by the prior art of record, which makes these claims

allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Communication with the USPTO

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to K. Feggins whose telephone number is 703-306-4548.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, J. Barlow can be reached on 703-308-3126. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-308-7722 for

regular communications and 703-308-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

May 20, 2002

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Technology Center 2800